ECAT (Pre-Eng) Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	if tanθ = 8/15 and cosθ< 0 , then cscθ =	A. -8/15 B. 15/8 C. 3/15 D. -17/8
2	$16^{o}30'$ =	A. 16.5^o B. 16.2^o C. 16.60^o D. 19.9^o
3	The circle with are 60 cm^2 has an arc 8 cm long. The angle that is subtended at the centre of the circle by the are is	A. 1.83 radians B. 2.1 radians C. 1.05 radians D. 1.25 radians
4	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
5	If x>0 and y<0, then cosθ	A. Positive B. negative C. zero D. infinity
6	Express cos 320^{o} between $0^{o}$and 45^{o}	A. cos 45^o B. cos 30^o C. -cos 40^o D. cos 40^o
7	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
8	The area of a sector of a circular region of radius r is	A. 2π r B. π r² C. 1/2πr² D. π/6
9	The are of sector of a circular region of radius r is	A. 2π r B. π r² C. 1/2π r² D. 1/2 r²0
10	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
11	radian is the measure of the angle subtended oat the centre of the circle by an are, whose length is equal to the	A. radius of the circle B. circumference C. are length D. tangent of the circle E. none of these
12	If l=1.5 cm and r=2.5 cm, then 0=	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
13	The value of 300^{o} in term ofπ is	A. 5π/3 B. 2π/3 C. 5π/2 D. 5π
14	The circular measure of the angle between the hands of a watch of 4 0'clock is	A. π/2 B. π/4 C. 2π/3 D. π/6
15	If cosθ = 9/41 and sinθ< 0, the tanθ =	A. 41/9 B. -40/9 C. 9/10

		D. 3/20
16	Express cos 320^{o} between $0^{o}$and 45^{o}	A. cos 45^o B. cos 30^o C. -cos 40^o D. cos 40^o
17	154^{o} 20' =	A. 2550/34401π B. 27721/22400 π C. 2521/32400π D. 4125/32400π
18	The value of 150^{o} in term of π is	A. 2π/5 B. 5π/2 C. 3π/2 D. 2550/32401π
19	3/π=.....	A. 54.71^o B. 21^o C. 51^o D. 29^o
20	The value of 63^{o}in term ofπ is	A. 5π/2 B. 5π/3 C. 7π/20 D. 7π/3